

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/FR2004/003175

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B25D17/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B25D B23D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	FR 2 234 967 A (UPAT MAX LANGENSIEPEN KG) 24 January 1975 (1975-01-24) page 6, line 13 - page 9, line 3 page 12, line 32 - line 39 figures 1-7	1-5,7,8
X	US 688 860 A (KAY JAMES & WEARNE CHARLES T) 17 December 1901 (1901-12-17) page 1, line 97 - page 2, line 34 figures	1-7
X	GB 01236 A A.D. 1911 (NEWTON) 21 June 1911 (1911-06-21) the whole document	1-5,7
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☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*8\* document member of the same patent family

Date of the actual completion of the international search

2 June 2005

Date of mailing of the international search report

13/06/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2 224 063 A (ROBERTS SAMUEL S) 3 December 1940 (1940-12-03) page 1, left-hand column, line 33 - line 39 page 1, right-hand column, line 42 - page 2, right-hand column, line 6 figures -----	1-3,5,7,8
X	US 3 726 533 A (LAFFERTY G,US) 10 April 1973 (1973-04-10) the whole document -----	1-3,7
A	US 4 402 519 A (MEADEN ET AL) 6 September 1983 (1983-09-06) column 3, line 45 - line 55 figures 2,3,5-7 -----	6
A	FR 2 808 720 A (MONTABERT ETS) 16 November 2001 (2001-11-16) -----	

# INTERNATIONAL SEARCH REPORT

(information on patent family members)

International Application No

PCT/FR2004/003175

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2234967	A	24-01-1975	DE 2419631 A1	06-11-1975
			AT 333639 B	10-12-1976
			AT 464974 A	15-03-1976
			CH 583845 A5	14-01-1977
			FI 182174 A	29-12-1974
			FR 2234967 A1	24-01-1975
			GB 1471604 A	27-04-1977
			IT 1015509 B	20-05-1977
			SE 7408443 A	12-02-1975
			US 3954276 A	04-05-1976
			BE 816879 A1	16-10-1974
US 688860	A		NONE	
GB 191101236	A	21-06-1911	NONE	
US 2224063	A	03-12-1940	NONE	
US 3726533	A	10-04-1973	CA 948392 A1	04-06-1974
US 4402519	A	06-09-1983	NONE	
FR 2808720	A	16-11-2001	FR 2808720 A1	16-11-2001
			AU 5852201 A	20-11-2001
			BR 0110793 A	13-05-2003
			CA 2408130 A1	15-11-2001
			CN 1429145 A	09-07-2003
			EP 1301313 A1	16-04-2003
			WO 0185398 A1	15-11-2001
			JP 2004513791 T	13-05-2004
			NO 20025387 A	03-01-2003
			US 2004011542 A1	22-01-2004
			ZA 200208748 A	28-07-2003